

EMERGENCY ACTION PLAN
(Site Specific Health and Safety Plans are Onsite)

Communications

- Currently no communications into the site is possible unless the Satellite Phone is carried to a point where signal is obtained.
- **Satellite Phone Calls Out: Turn Phone On and Carry it to a point West of the trailer to obtain a signal.**

Operational Area: The Red and Bonita Mine located on County Road 53 north of Gladstone, and the Gold king Mine located on off County Road 52 if you continue straight to the dead end at the portal.

Site Satellite Phone Located in EPA trailer at base of the Red and Bonita Mine waste dump by water treatment facility Maximum coverage in open area west of treatment ponds, marked with yellow stake and flagging.

SAT Phone	+8816 2349 3687
San Juan Mine Rescue Cooperative	970-318-6079 (See Roster for Alternate numbers)
San Juan County Fire Department	970-387-5023 or 911
San Juan County Sheriff	970-387-5531 or 911
Flight for Life	800-332-3123
Mercy Regional Medical Center	970-247-4311

More phone numbers in Red Folder in EPA trailer

Site Location: 1 mile north of Gladstone, CO on County Road 53; 8 miles north of Silverton Hospital maps located in the EPA trailer red folder.

Flight for Life Landing Zone at Gladstone: 37°53'20.8"N 107°38'56.1"W

Check-In Point for Major Emergency - Gladstone Gold Fields Metal Building Staging Area
EVACUATION MUSTER POINT (FOREST FIRE CONDITIONS): South West End of the Pond – near discharge / filter bags. Account for all personnel before leaving.

- Secondary Location is Gladstone

MUSTER POINT – Non Fire: Meet at the staging area / Safety Meeting Location

IN-MINE EMERGENCY

Cave in or other observable incident in mine: THE PORTAL ATTENDANT DOES NOT ENTER THE MINE

1. Portal attendant notifies site managers: ER Response Manager (Matt Francis), START, EPA-OSC or other personnel at base of hill by radio. Provide best description possible of incident. If safe, stay at top of mine dump to provide ongoing updates to personnel at bottom of hill. If not, evacuate away from hazard.
2. 1st contact by site personnel: Call San Juan County EMS / 911 or numbers above using the Satellite Phone. Clearly explain the situation and describe location (see above).
3. 2nd contact the San Juan Mine Rescue cooperative if personnel are underground needing assistance and may be trapped.
4. ERRS is the initial responder until San Juan Mine Rescue arrives for underground assistance; SCBA's located outside mine at top of waste dump in the MES trailer. However, local responders in Silverton have mine rescue capability especially for injuries not involving a mine collapse.
5. Response Personnel Entry: The decision to enter the mine shall be made by the ER Response Manager and the EPA-OSC. Appropriate PPE must be used, monitoring for hazardous atmosphere, additional site personnel must support potential entry teams.

In-mine personnel do not come out at agreed time and cannot be contacted by portal attendant.

1. Portal attendant notifies Matt Francis, START, EPA or other personnel at base of hill by radio
2. Base of hill personnel contacts San Juan Mine Rescue cooperative. Explain situation. Describe location (see above).
3. Monitor situation, and prepare to have the response team onsite enter to evaluate the scene

INJURIES: First Aid kits are located in the EPA white trailer and in the ER trucks.

Medical emergency in mine –

1. Notify the Site managers.
2. Evacuate the injured party from the mine if conditions allow – coordinate with MES crew.
3. If evacuation by site personnel is not possible
 - a. Call San Juan County Fire Department/Sheriff or 911
 - b. Call San Juan Mine Rescue Cooperative
4. Personnel on scene shall evaluate and monitor the situation as conditions allow

Medical emergency – personnel can be evacuated from mine

1. Call San Juan County Fire Department
2. Render First Aid as appropriate

Minor medical event

1. Remove personnel to Durango or Montrose for medical care. Maps are located in the red folder in the EPA trailer.

CAUSTIC INCIDENT:

Eight Totes with 250 gallons each are stored at the Colorado Gold Fields facility in Gladstone. Transportation between the storage area and the mine site is the most likely situation when an incident may occur.

1. Secure the Scene – prevent unauthorized personnel or personnel without PPE from entering the spill area.
2. Request assistance from site personnel and notify the site managers (EPA-OSC, ERRS RM and/or START)
3. Take actions to prevent off-site migration if wearing appropriate PPE or outside spill area as defensive measure – such as trenching or diversion dams.

Tote or 55 gallon drum rupture

1. Trained personnel dons Saranex PPE, Gloves (nitrile) and eye protection to respond to spill.
2. If on site near treatment system: Personnel in PPE opens headgate to pond system to direct caustic to ponds and continue pumping Pond at discharge cell until NaOH impacts the discharge water pH above 9.5 su – THEN STOP.
3. Secure the leaking container if possible to minimize release and assess the loss volume.
4. Monitor ponds to ensure pH is between 4 and 10 su maximum prior to discharge from pond system, if possible. Continue to add mine water to neutralize the caustic – do not add caustic at the treatment system.
5. Spills outside the Treatment area: Caustic should flow toward drainage channel on east side of CR 53. If not, personnel with appropriate PPE may use a shovel to direct water to channel and ponds.
6. Soil cleanup will be performed after securing the leaking container and the downstream migration is controlled.

Exposure to NaOH – See MSDS sheet in EPA Trailer

Eye Exposure

1. PERSONNEL HANDLING CAUSTIC SHOULD NOT WEAR CONTACT LENSES – If wearing them have personnel not in contact with caustic remove contact lenses.
2. Flush eyes with running water for at least 15 minutes. Eyewash is located in back of EPA trailer. Back gate will be open during operating hours. Step is available for shorter personnel.
3. Seek immediate medical attention.

Skin Exposure

1. Remove potentially impacted clothing. Tyvek and Saranex suits are available in EPA trailer for cover after skin is thoroughly washed.
2. Thoroughly wash affected area with DI water. Soap may be used. DI water is located in EPA trailer and adjacent to NaOH totes.
3. For serious skin contact, seek medical attention. For extremely serious skin contact, contact San Juan County Fire Department.

Ingestion

1. Do not induce vomiting. Loosen tight clothing.
2. It may be hazardous to perform rescue breathing.
3. Seek immediate medical attention

Inhalation

1. Rest
2. Seek immediate medical attention.

SITE PERSONNEL:

EPA OnScene Coordinators (OSC):

1. Steven Way: Cell 303-886-1640
2. Hays Griswold: Cell 303-886-1633
3. Joyel Dhieux: Cell 303-441-9961

Environmental Restoration:

1. Matt Francis, Response Manager: 303-994-6611

Weston Solutions Inc.

1. Elliott Petri, Project Team Lead: Cell 719-216-2754
2. Megan Oller, START Engineer: Cell 720-635-6826
3. Jan Christner, START Engineer: Cell 505-269-1925

Mining Environmental Services

1. Mark Levin, Owner: Cell 303-570-1207